## **Combined Declaration and Power of Attorney for Patent Application**

Docket Number: 38-21(15091)B

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH THE CARBON ASSIMILATION PATHWAY

the specification of which is filed herewith unless the following box is checked:

| was filed on Mar   | ch 4, 1999 ;                        |  | •                            |
|--|-------------------------------------|--|------------------------------|
|  | Application Number 09/262,979       | · and  |                              |
| was amended on   |                                     | ,  |                              |
|  | ( opp.:).                           |  |                              |
| I hereby state that I have r   | eviewed and understand the contr    | ents of the above identified specification, in   | coluding the claims as       |
| amended by any amendme   | ent referred to above.              | and the second second specification, in          | leidding the claims, as      |
| Tarlangual 1 of 1  |                                     |  | ·# >>                        |
| r acknowledge the duty to  | disclose information that is mate   | rial to patentability as defined in 37 C.F.R.    | § 1.56.                      |
| I hereby claim foreign price   | ority benefits under 35 U.S.C. § 1  | 19(a)-(d) or § 365(b) of any foreign application | ation(s) for natent or       |
| inventor's certificate, or §   | 365(a) of any PCT international a   | application, which designated at least one c     | ountry other than the United |
| States listed below, and ha  | we also identified below any fore   | ign application for patent or inventor's cert    | ificate or PCT international |
| application having a filing  | date before that of the application | n on which priority is claimed.                  | meate, of TeT international  |
| 379  |                                     | 1  |                              |
| Prior Foreign Application  | (s)                                 |  | Priority Claimed             |
| 125<br>125<br>126<br>127<br>128<br>128<br>128<br>128<br>128<br>128<br>128<br>128<br>128<br>128 |                                     |  |                              |
| 100 mg   |                                     |  | ☐ Yes ☐ No                   |
|  |                                     |  | -                            |
| (Application No.)  | (Country)                           | (Day/Month/Year Filed)                           |                              |
| 2 D  |                                     |  |                              |
| Marie aliter   |                                     |  | ☐ Yes ☐ No                   |
| (Application No.)  | (Country)                           | (Day/Month/Year Filed)                           | <del></del>                  |
|  | (00-1111))                          | (Day/Monds Teal Thed)                            |                              |
| I hereby claim the benefit   | under 35 U.S.C. § 119(e) of any l   | United States provisional application(s) list    | ed below.                    |
| 60/076,912   | 03/06/98                            | Abandoned  |                              |
| (Application No.)  | (Filing Date)                       | (Status)   |                              |
| **   | (I ming Date)                       | (Status)   |                              |
|  |                                     |  |                              |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

Lawrence M. Lavin, Jr. Dennis R. Hoerner, Jr. Richard H. Shear

Jeffrey I. Auerbach, Reg. No. 32,680
Melvin L. Barnes, Jr. Reg. No. 38,375
Michael J. Bell, Reg. No. 39,604
Mark R. Buscher, Reg. No. 35,006
Celine T. Callahan, Reg. No. 34,301
Cono A. Carrano, Reg. No. 39,623
Joseph V. Colaianni, Reg. No. 39,948
James F. Davis, Reg. No. 21,072
Thomas M. Dunham, Reg. No. 39,965
Joel M. Freed, Reg. No. 25,101
Vernon Randall Gard, Reg. No. 33,886
Alan M. Grimaldi, Reg. No. 26,599
Alexander J. Hadjis, Reg. No. 36,540
Albert P. Halluin, Reg. No. 25,227
Leslie L. Jacobs, Jr., Reg. No. 40,659

Reg. No. 30,768 Reg. No. 30,914 Reg. No. 26,583

Richard H. Kjeldgaard, Reg. No. 30,186
Joseph P. Lavelle, Reg. No. 31,036
David R. Marsh, Reg. No. 41,408
Joseph A. Micallef, Reg. No. 39,772
Erik B. Milch, Reg. No. 42,887
Anthony D. Miller, Reg. No. 34,394
Karen L. Nicastro, Reg. No. 35,968
Bradley J. Olson, Reg. No. 40,750
Andrew Y. Piatnicia, Reg. No. 40,772
Andrea G. Reister, Reg. No. 36,253
Stephen J. Rosenman, Reg. No. 29,209
Timothy L. Scott, Reg. No. 37,931
Anthony W. Shaw, Reg. No. 30,104
J. David Smith, Reg. No. 39,839
Michael J. Songer, Reg. No. 39,841

Send Correspondence to:

Larry M. Lavin, Jr.

Monsanto Company

700 Chesterfield Parkway North, BB4F

St. Louis, Missouri

Facsimile: (314) 737-6047

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| irst inventor's signature  | Date        |
|--|-------------|
| Residence Manchester, Missouri USA                               |             |
| Citizenship USA  |             |
| Ost Office Address 721 Foxwick Drive, Manchester, Missouri 63011 | بر ه.       |
|  |             |
| Full name of second inventor Philip W. Miller                    |             |
| Secretal inventor's signature                                    | Date        |
| Residence Ballwin, Missouri USA                                  |             |
| Citizenship USA  |             |
| Post Office Address 216 E Seawind Drive, Ballwin, Missouri 63021 |             |
|  |             |
| Full name of third inventor Keith M. O'Connell                   |             |
| Third inventor's signature                                       | Date 6/1/90 |
| Residence Kirkwood, Missouri USA                                 | ,,,,,       |
| Citizenship USA  |             |
| Post Office Address 568 A Fieldmount, Kirkwood, Missouri 63122   |             |
|  |             |
|  |             |

| Full name of fourth inventor Jingdong Liu |  |                          |  |  |
|---|--|--------------------------|--|--|
|   |  |                          |  |  |
| Fourth inventor's signatur                | e  | Date                     |  |  |
| Residence                                 | Ballwin Missouri USA                           |                          |  |  |
| Citizenship                               | USA  |                          |  |  |
| Post Office Address                       | 885 Castle Pines Drive, Ballwin Missouri 63021 |                          |  |  |
|   |  |                          |  |  |
| Full name of fifth invent                 | or   | · Company of the company |  |  |
| Fifth inventor's signature                | 2  | Date .                   |  |  |
| Residence                                 |  |                          |  |  |
| Citizenship                               |  |                          |  |  |
| Post Office Address                       |  |                          |  |  |
| 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |  |                          |  |  |
| Full name of sixth inven                  |  |                          |  |  |
| Sixth inventor's signatur                 | е  | Date                     |  |  |
| Residence                                 |  |                          |  |  |
| Citizenship                               |  |                          |  |  |
| Post Office Address                       |  |                          |  |  |
|   |  |                          |  |  |

## Combined Declaration and Power of Attorney for Patent Application

Docket Number: 38-21(15091)B

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled <u>NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH THE CARBON ASSIMILATION PATHWAY</u>

the specification of which is filed herewith unless the following box is checked:

| was filed on M                                  | larch 4, 1999;   |  |                  |                |
|---|--|--|------------------|----------------|
| as United State                                 | es Application Number 09/262,979                               | ; and  |                  |                |
|   | on (if applicable).  | ,  |                  |                |
| I hereby state that I have amended by any amend | e reviewed and understand the conti<br>ment referred to above. | ents of the above identified specification, in | ncluding the cl  | aims, as       |
| I acknowledge the duty                          | to disclose information that is mate                           | rial to patentability as defined in 37 C.F.R.  | § 1.56.          | · <b>.</b>     |
| I hereby claim foreign p                        | riority benefits under 35 U.S.C. § 1                           | 19(a)-(d) or § 365(b) of any foreign applica   | ation(s) for par | ent or         |
| inventor's certificate, or                      | § 365(a) of any PCT international a                            | application, which designated at least one of  | ountry other th  | on the United  |
| States listed below, and                        | have also identified below any fore                            | ign application for patent or inventor's cert  | ificate, or PCT  | 'international |
| application having a fili                       | ng date before that of the applicatio                          | n on which priority is claimed.                | ,                |                |
| Prior Foreign Application                       | on(s)  |  | Priority         | Claimed        |
| 12  |  |  | •                |                |
|   |  |  | ☐ Yes            | □ No           |
| (Application No.)                               | (Country)  | (Day/Month/Year Filed)                         |                  |                |
| 3   |  |  |                  |                |
| 1   |  |  | ☐ Yes            | □ No           |
| (Application No.)                               | (Country)  | (Day/Month/Year Filed)                         |                  |                |
| I hereby claim the benef                        | it under 35 U.S.C. § 119(e) of any                             | United States provisional application(s) list  | ed below.        |                |
| 60/076,912                                      | 03/06/98   | Abandoned                                      |                  |                |
| (Application No.)                               | (Filing Date)  | (Status)                                       |                  |                |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

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Reg. No. 30,768 Reg. No. 30,914 Reg. No. 26,583

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Andrea G. Reister, Reg. No. 36,253
Stephen J. Rosenman, Reg. No. 29,209
Timothy L. Scott, Reg. No. 37,931
Anthony W. Shaw, Reg. No. 30,104
J. David Smith, Reg. No. 39,839
Michael J. Songer, Reg. No. 39,841

Send Correspondence to:

Larry M. Lavin, Jr.

Monsanto Company

700 Chesterfield Parkway North, BB4F

St. Louis, Missouri

Facsimile: (314) 737-6047

| L. C.  |  |  |  |  |
|--|--|--|--|--|
| Full name of fourth inventor Jingdong Liu  |  |  |  |  |
|  |  |  |  |  |
| Fourth inventor's signature  | Date 6-7-99  |  |  |  |
| Residence Ballwin Missouri USA   |  |  |  |  |
| Citizenship USA  |  |  |  |  |
| Post Office Address 885 Castle Pines Drive, Ballwin Missouri 63021   |  |  |  |  |
|  |  |  |  |  |
| Full name of fifth inventor  | and the second s |  |  |  |
| Fifth inventor's signature   | Date   |  |  |  |
| Residence  |  |  |  |  |
| Citizenship Post Office Address  |  |  |  |  |
| The state of the s |  |  |  |  |
|  |  |  |  |  |
| Full name of sixth inventor  |  |  |  |  |
| Sixth inventor's signature   | Date   |  |  |  |
| Residence  |  |  |  |  |
| Citizenship  |  |  |  |  |
| Post Office Address  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Combined De ation and Power of Attorney for Pa Application

Docket Number: 38-21(15091)B

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(Application No.)

My residence, post office address and citizenship are as stated below next to my name.

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the specification of which is filed herewith unless the following box is checked:

(Filing Date)

|  | arch 4, 1999;<br>s Application Number <u>09/262.97</u><br>n (if applicable                                |  |                                     |               |
|--|---|--|-------------------------------------|---------------|
| I hereby state that I have amended by any amendr   | reviewed and understand the conent referred to above.   | ontents of the above identified specification,   | including the cl                    | aims, as      |
| I acknowledge the duty t   | o disclose information that is ma   | aterial to patentability as defined in 37 C.F.R  | l. § 1.56.                          |               |
| Inventor's certificate, or<br>States listed below, and lapplication having a filing prior Foreign Application  | § 365(a) of any PCT internation have also identified below any for g date before that of the application. | § 119(a)-(d) or § 365(b) of any foreign applial application, which designated at least one oreign application for patent or inventor's certion on which priority is claimed. | country other the trificate, or PCI | an the United |
| And the state of t |   |  | ☐ Yes                               | □ No          |
| (Application No.)  | (Country)   | (Day/Month/Year Filed)   |                                     |               |
| #  |   |  | ☐ Yes                               | □No           |
| (Application No.)  | (Country)   | (Day/Month/Year Filed)   |                                     |               |
| I hereby claim the benefi  | t under 35 U.S.C. § 119(e) of ar  | y United States provisional application(s) lis   | sted below.                         | i             |
| 60/076,912   | 03/06/98  | Abandoned  |                                     |               |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Status)

Lawrence M. Lavin, Jr. Dennis R. Hoerner, Jr. Richard H. Shear

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Reg. No. 30,768 Reg. No. 30,914 Reg. No. 26,583

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Michael J. Songer, Reg. No. 39,841

Send Correspondence to:

Larry M. Lavin, Jr. Monsanto Company

700 Chesterfield Parkway North, BB4F St. Louis, Missouri Facsimile: (314) 737-6047

belief are believed to be true; and furth these statements were made with the knowle. That willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Ye was                       |   |   |
|------------------------------|---|---|
| irst inventor's signature    |   | Date                                    |
| esidence                     | Manchester, Missouri USA                      |   |
| itizenship                   | USA   |   |
| ost Office Address           | 721 Foxwick Drive, Manchester, Missouri 63011 | , |
|                              |   | - All Areas are an area and a second    |
| _ ,,                         |   |   |
| Full name of second inventor | Philip W. Miller                              |   |
| Second inventor's signature  | They Mell                                     | Date 6/7/99                             |
| Residence                    | Ballwin, Missouri USA                         | ,                                       |
| Grizenship                   | USA   |   |
| Post Office Address          | 267 Oak Pass Court Ballwin, Missouri 63021    |   |
|                              |   |   |
| Full name of third inventor  | Keith M. O Connell                            |   |
| Fhird inventor's signature   |   | Date                                    |
| L. Residence                 | Kirkwood, Missouri USA                        |   |
| Citizenship                  | USA   |   |
| Post Office Address          | 568 A Fieldmount, Missouri 63122              |   |

| Full name of fourth inventor   | Jingdong Liu                                   |      |
|--|--|------|
| Fourth inventor's signature  | •  | Date |
| Residence  | Ballwin Missouri USA                           |      |
| Citizenship .  | USA  |      |
| Post Office Address  | 885 Castle Pines Drive, Ballwin Missouri 63021 |      |
|  |  |      |
| Full name of fifth inventor  |  |      |
| Fifth inventor's signature   |  | Date |
| Residence  |  |      |
| Gitizenship  |  |      |
| Post Office Address  |  |      |
| dilla di santa di san |  |      |
| Full name of sixth inventor  |  |      |
| Sixth inventor's signature   |  | Date |
| Residence  | •  |      |
| Gitizenship  |  |      |
| Post Office Address  |  |      |
|  |  |      |

## Combined Declaration and Power of Attorney for Patent Application

Docket Number: 38-21(15091)B

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the specification of which is filed herewith unless the following box is checked:

| XI                  |   | 999 ;<br>ation Number <u>09/262,979</u> ; a<br>(if applicable).                             | and  |  |          |
|---------------------|---|---|--|--|----------|
|                     | state that I have reviewe<br>d by any amendment refe                                      |   | nts of the above identified specification, in  | ncluding the cl  | aims, as |
| Lhereby<br>inventor | v claim foreign priority be<br>r's certificate, or § 365(a)<br>States listed below, and h | enefits under 35 U.S.C. § 11<br>of any PCT international ap<br>ave also identified below ar | 9(a)-(d) or § 365(b) of any foreign application, which designated at least one can foreign application for patent or inventor application on which priority is claimed | eation(s) for pa<br>country other to<br>or's certificate | han the  |
| Prior Fo            | oreign Application(s)   |   |  | Priority   | Claimed  |
|                     |   |   |  | ☐ Yes  | □ No     |
| (Applic             | ation No.)  | (Country)   | (Day/Month/Year Filed)   | ······································                   |          |
|                     | * .   |   |  | ☐ Yes  | ☐ No     |
| Applic              | ation No.)  | (Country)   | (Day/Month/Year Filed)   | <del></del>  |          |
| I hereb             | y claim the benefit under   | 35 U.S.C. § 119(e) of any U   | Jnited States provisional application(s) lis   | sted below.  |          |
| 60/076.<br>(Applic  | 912<br>ation No.)   | 03/06/98<br>(Filing Date)   | Abandoned (Status)   |  |          |
|                     |   |   |  |  |          |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

Daga 1 af A

Lawrence M. Lavin, Jr. Dennis R. Hoerner, Jr. Richard H. Shear

Reg. No. 30,768 Reg. No. 30,914 Reg. No. 26,583

Jeffrey I. Auerbach, Reg. No. 32,680
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Michael J. Bell, Reg. No. 39,604
Mark R. Buscher, Reg. No. 35,006
Celine T. Callahan, Reg. No. 34,301
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Leslie L. Jacobs, Jr., Reg. No. 40,659

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Joseph P. Lavelle, Reg. No. 31,036
David R. Marsh, Reg. No. 41,408
Joseph A. Micallef, Reg. No. 39,772
Erik B. Milch, Reg. No. 42,887
Anthony D. Miller, Reg. No. 34,394
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Andrew Y. Piatnicia, Reg. No. 40,772
Andrea G. Reister, Reg. No. 36,253
Stephen J. Rosenman, Reg. No. 29,209
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J. David Smith, Reg. No. 39,839
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700 Chesterfield Parkway North, BB4F

St. Louis, Missouri

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such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Full name of sole or first inventor Nordine Cheikh                |              |
|---|--------------|
| First inventor's signature  N. Chul                               | Date 5/27/99 |
| Residence Manchester, Missouri USA                                |              |
| Citizenship USA   |              |
| Post Office Address 721 Foxwick Drive, Manchester, Missouri 63011 |              |
|   |              |
| Full name of second inventor Philip W. Miller                     |              |
| Second inventor's signature                                       | Date         |
| Residence Ballwin, Missouri USA                                   |              |
| Citizenship USA   |              |
| Post Office Address 216 E Seawind Drive, Ballwin, Missouri 63021  |              |
|   |              |
| Full name of third inventor Keith M. O' Connell                   |              |
| Third inventor's signature  | Date         |
| Residence Kirkwood, Missouri USA                                  |              |
| Citizenship USA   |              |
| Post Office Address 568 A Fieldmount, Missouri 63122              |              |
|   |              |

| Full name of fourth inventor   | Jingdong Liu                                   |      |
|--|--|------|
| Fourth inventor's signature  |  | Date |
| Residence  | Ballwin Missouri USA                           |      |
| Citizenship  | USĄ  |      |
| Post Office Address  | 885 Castle Pines Drive, Ballwin Missouri 63021 |      |
|  |  | •    |
| Full name of fifth inventor  |  |      |
| Fifth inventor's signature   |  | Date |
| Residence  |  |      |
| OCitizenship   |  |      |
| Post Office Address  |  |      |
| Here are a second of the secon |  |      |
| Full name of sixth inventor  |  |      |
| Sixth inventor's signature   |  | Date |
| Residence  |  |      |
| Citizenship  |  |      |
| Post Office Address  |  |      |
|  |  |      |
|  |  |      |